National Center for Science and Engineering Statistics | NSF 18-313

TABLE 40

Domestic R&D paid for by other companies and performed by the company, by funders' business activity: 2015 (Millions of U.S. dollars)

unders' business activity ^a	Business code ^b	Amou
Il business activities	21100-81000	30,912
Oil and gas extraction	21100	
Mining	21200	,
Support activities for mining, including oil and gas	21300	
Utilities	22100	23
Construction	23000	1
Food manufacturing	31100	164
Beverage manufacturing	31210	117
Tobacco manufacturing	31220	2
Textile, apparel, and leather products manufacturing	31990	
Wood products manufacturing	32100	
Paper manufacturing	32200	
Printing and related support activities	32300	1.
Petroleum refineries	32401	14
Asphalt paving, roofing, and saturated materials manufacturing	32402	
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	1
Basic chemicals manufacturing	32510	10
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	10
Pesticide, fertilizer, and other agricultural chemical manufacturing	32530	
Pharmaceutical, medicinal, botanical, and biological products (except diagnostics)	32541	10 11
		-
In vitro diagnostic substances manufacturing	32542	1
Biotechnology-based pharmaceutical and biological products (except diagnostics)	32543	5,67
Soap, cleaning compound, and toilet preparation manufacturing	32591	17
Paint, adhesive, and other chemical manufacturing	32592	16
Plastics and rubber products manufacturing	32600	2
Clay and glass products manufacturing	32710	
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	
Primary metal manufacturing	33100	1
Fabricated metal products manufacturing	33200	5
Agricultural machinery and equipment manufacturing	33311	1
Construction machinery manufacturing	33312	
Mining, oil, and gas field machinery and equipment manufacturing	33319	2
Semiconductor machinery manufacturing	33321	9
Industrial machinery manufacturing (except semiconductor machinery)	33322	2
Photographic and photocopying equipment manufacturing	33331	
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	
Digital cameras manufacturing	33333	
Engine, turbine, and power transmission equipment manufacturing	33360	18
Metalworking and other general purpose machinery manufacturing	33390	7
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	9
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	
Radio, television, and wireless communication equipment manufacturing	33422	59
Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	1
Audio and video equipment manufacturing	33430	1
Semiconductors and other electronic components manufacturing	33440	1,81
Electromedical, electrotherapeutic, and irradiation apparatuses manufacturing	33451	12
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments manufacturing	33452	54
Measuring and control instruments manufacturing (not listed elsewhere)	33459	34
	33500	
Electrical equipment, appliances, and components manufacturing Motor vehicles manufacturing		
Motor vehicles manufacturing	33610	1,67
Motor vehicle body and trailer manufacturing Motor vehicle parts manufacturing	33620 33630	70

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ders' business activity ^a	Business code ^b	Amou
Aircraft manufacturing	33641	120
Aircraft engine and engine parts manufacturing	33642	163
Other aircraft parts and auxiliary equipment manufacturing	33643	520
Guided missiles, space vehicles, and related parts manufacturing	33644	34
Railroad rolling stock manufacturing	33651	
Ship and boat building	33660	
Motorcycle, bicycle, and parts manufacturing	33691	
Military armored vehicle, tank, and tank components manufacturing	33692	10
All other transportation equipment manufacturing	33699	2
Furniture and related products manufacturing	33700	
Medical equipment and supplies manufacturing	33910	32
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	14
Merchant wholesalers, durable goods	42300	1
Merchant wholesalers, nondurable goods	42400	
Wholesale electronic markets and agents and brokers (business to business)	42500	
Retail trade (except electronic shopping and electronic auctions)	44000	
Electronic shopping and electronic auctions	45411	
Fransportation	48000	
·		
Couriers, messengers, and express delivery services	49200	
Warehousing and storage	49300	
Newspaper, periodical, book, and directory publishers (except Internet)	51110	-
Software publishers (except Internet)	51120	54
Motion picture and sound recording (except Internet)	51200	
Broadcasting (except Internet)	51500	
Nired telecommunications carriers	51710	5
Nireless telecommunications carriers (except satellite)	51720	2
Satellite telecommunications	51740	
Other telecommunications (not listed elsewhere)	51790	
Data processing, hosting, and related services	51800	1
Cloud computing applications and Internet-based software services	51801	2
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	1
Finance: banking and credit intermediation	52200	
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	
nsurance carriers and related activities	52400	
Real estate	53100	
Rental and leasing services	53200	
Lessors of nonfinancial intangible assets, including patent licensing	53300	
egal, accounting, tax preparation, bookkeeping, and payroll services	54111	
Architectural, engineering, and related services	54130	14
Specialized design services	54140	g
Computer systems design and related services	54150	44
Management, scientific, and technical consulting services	54160	
Research and development services in social sciences and humanities	54172	
Research and development services in biotechnology	54173	1,00
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	41
Advertising and related services	54180	71
Professional, scientific, and technical services (not listed elsewhere)	54190	60
		00
Management of companies and enterprises	55100	
Administrative and support services	56100	
Waste management and remediation services	56200	
Offices of physicians	62110	1

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Domestic R&D paid for by other companies and performed by the company, by funders' business activity: 2015 (Millions of U.S. dollars)

Funders' business activity ^a	Business code ^b	Amount
Other ambulatory health care services (ambulance, dental, home health care)	62199	0
Hospitals and nursing care facilities	62200	3
Social assistance services	62400	0
Arts, entertainment, and recreation	71000	D
Accommodation and food services	72000	0
Other services (not listed elsewhere)	81000	13
Undistributed	-	1,314

^{* =} amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

Note(s)

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States that performed or funded R&D. For an R&D performer that did not report the R&D funders' business activities, no systematic imputation of these business activities was conducted. The business activities of the R&D funders may not be assumed to be the same as those of the R&D performer.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.

^a Data are tabulated independently of the industry classification and business activities of the company that performs R&D.

^b Business codes and descriptions are based on 2012 NAICS industry definitions.